

PROTECTING THE ENVIRONMENT AND PUBLIC HEALTH



IN THE U.S.-MEXICO BORDER REGION



Overcoming Binational Environmental Challenges

The U.S.-Mexico border region is home to over 15 million people who share natural resources, watersheds, and air basins that transcend political boundaries. Binational pollution impacts both sides of the border and necessitate a coordinated response. To improve and protect the environment and public health, the Laz Paz Agreement was signed by the Governments of Mexico and the United States in 1983. Thus, providing the foundation for cooperative efforts to address the complex and intertwined environmental issues along the U.S.-Mexico border.



Opening ceremony of the Border 2020 Program at Tijuana, Baja California, on August 8th, 2012.



Controlled agriculture field burn in Dona Ana County, New Mexico.

A Diverse U.S.-Mexico Border Region

- 15 million+ people borderwide
- 26 federally recognized U.S. tribes
- (#) of watersheds with 2 listed as U.S. national priorities
- 40+ U.S. counties and 80 M.X. municipalities
- 4 transboundary rivers into the U.S .
- 2,000 mile shared border

TIMELINE

1983

The Basis for Binational Cooperation — La Paz Agreement

Recognizing the need to cooperate binationally on environmental and public health problems in the border region, the Governments of the United States and Mexico signed the Agreement on Cooperation for the Protection and Improvement of the Environment in the Border Area (the La Paz Agreement), in the city of La Paz, Baja California Sur, Mexico, in 1983.



Presidents Reagan of the U.S. and President de la Madrid of Mexico sign the La Paz Agreement.

1992

Integrated Border Environmental Plan (IBEP)

The first binational border program, IBEP, focused on enhanced environmental regulation and resulted in significant investments in infrastructure along the border. Although the binational environment improved, many projects were implemented at a federal scale and missed local concerns for border communities regarding environmental health and natural resources.

1996

Border XXI

Following IBEP, Border XXI established a five-year bilateral effort which included additional federal partners to achieve its goals, engaged the states and U.S. tribes , and included over 40 public meetings to solicit input and identify local priorities. Border XXI also established nine borderwide workgroups to address transboundary environmental issues. While the workgroups implemented many pilot projects benefitting communities, the program objectives remained broad in nature.

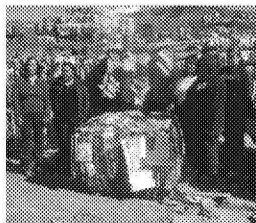


Local emergency response sister-cities were developed.

2003

Border 2012

The Border 2012 Program set an ambitious ten-year plan that included specific and measurable environmental goals and objectives. It continued engagement of state and local communities and operated through four new regional workgroups and local taskforces to implement stakeholder-led projects.



Partnered with U.S. tribe to enhance solid waste management of Necua Indigenous Community in Baja California, 2006.

2012

Border 2020

Border 2020 continues a bottom-up approach and tackles emerging environmental issues. Program goals were established binationally and seek to improve air and water quality, reduce waste, strengthen emergency response, promote environmental stewardship and address environmental health. These goals directly align with U.S. EPA's core programs, local priorities, and the original mandate from the La Paz Agreement to address the complex and on-going regional environmental challenges.



Improving water infrastructure in the Tijuana- San Diego region.

Building from the La Paz Agreement, U.S. EPA and Mexico's SEMARNAT have implemented four successive binational programs to meet emerging environmental challenges in this dynamic region. Along the entire border key stakeholders such as the 10 states, 26 tribes and local partners have provided leadership and additional funding to implement projects that advance environmental protection and public health improvements while the population and economic activity has increased.

Overcoming Binational Environmental Challenges

The U.S.-Mexico border region is home to over 15 million people who share natural resources, watersheds, and air basins that transcend political boundaries. Binational pollution impacts both sides of the border and necessitate a coordinated response. To improve and protect the environment and public health, the Laz Paz Agreement was signed by the Governments of Mexico and the United States in 1983. Thus, providing the foundation for cooperative efforts to address the complex and intertwined environmental issues along the U.S.-Mexico border.



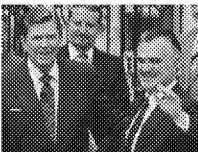
Opening ceremony of the Border 2020 Program at Tijuana, Baja California, on August 8th, 2012.

TIMELINE

1983

The Basis for Binational Cooperation — La Paz Agreement

Recognizing the need to cooperate binationally on environmental and public health problems in the border region, the Governments of the United States and Mexico signed the Agreement on Cooperation for the Protection and Improvement of the Environment in the Border Area (the La Paz Agreement), in the city of La Paz, Baja California Sur, Mexico, in 1983.



Presidents Reagan of the U.S. and President de la Madrid of Mexico sign the La Paz Agreement.

1992

Integrated Border Environmental Plan (IBEP)

The first binational border program, IBEP, focused on enhanced environmental regulation and resulted in significant investments in infrastructure along the border. Although the binational environment improved, many projects were implemented at a federal scale and missed local concerns for border communities regarding environmental health and natural resources.

Building from the La Paz Agreement, U.S. EPA and Mexico's SEMARNAT have implemented four successive binational programs to meet emerging environmental challenges in this dynamic region. Along the entire border key stakeholders such as the 10 states, 26 tribes and local partners have provided leadership and additional funding to implement projects that advance environmental protection and public health improvements while the population and economic activity has increased.

Protecting Communities Borderwide



Aerial view of Imperial County, California.

Improving the Air We Share

Many U.S.-Mexico border cities share binational air basins, where pollutants such as particulate matter (PM₁₀, PM_{2.5}) and ozone (NO_x and VOC) travel across borders. Exposures to these pollutants can affect our lungs, triggering a variety of health problems, particularly to vulnerable populations with asthma. In the border region, ozone is problematic in the San Diego and Imperial Valley, California air basins while PM is a key concern in the El Paso, Texas air basin.

In response, local binational task forces formed to coordinate and implement solutions such as improving and/or expanding monitoring networks, increasing data availability, and expanding public outreach. Air monitoring from 2006 -2014 identified a decline in ozone exceedances in the San Diego and Imperial Valley air basins and PM exceedances in the El Paso air basin.

In addition, 170,000 tons per year of PM₁₀ was eliminated by paving dusty roads and improving urban transport borderwide. The border region also reduced emissions at ports-of-entry by reducing wait times for idling vehicles. Binational partnerships thru State Implementation Plans (in U.S.) and ProAire (in Mexico) are also working to reduce atmospheric and implement of over 30 mitigation strategies.

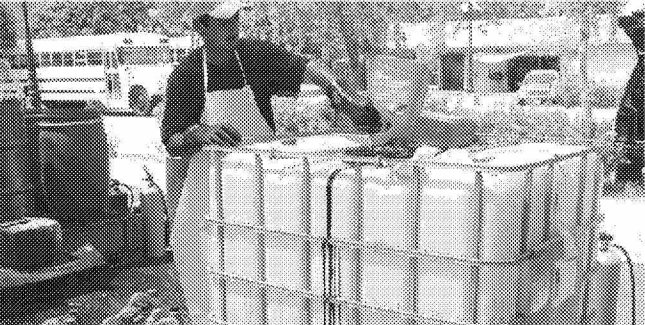


Groundbreaking ceremony of Water System Improvements in Anthony, New Mexico.

Enhancing Water Quality

The U.S.-Mexico border region shares four transboundary watersheds, with two ranking as U.S. priorities, as well as many rivers flowing north. Untreated wastewater poses environmental health challenges due to outdated infrastructure and extreme weather events that lead to sewage overflows with untreated stormwater and wastewater entering these transboundary waterways. Since 1997, the Border Water Infrastructure Program (BWIP) and binational program partners have supported the construction and/or expansion of water and wastewater projects that are eliminating over 350 million gallons a day (mgd) of untreated or inadequately treated sewage discharges each day. This is the equivalent to wastewater generated by 8.5 million people.

Another borderwide challenge is illegal dumping of waste that also contaminates waterways. The Border Program carries out projects like trash cleanup and waste reduction programs, to address this issue and reduce solid waste in the Pacific Ocean and transboundary rivers. In addition, green infrastructure pilot projects and training seminars in in Ambos Nogales were implemented to reduce impacts from stormwater runoff into the Nogales Wash and the Santa Cruz River in Arizona. The Program has continued to address public health concerns associated with inadequate waste management practices through the implementation and enhancement of local programs (Fats, Oils and Grease) in Laredo, Texas and Nuevo Laredo, Tamaulipas by working with local businesses understand local ordinances associated with the city's waste management. In addition, more than 1,000 community members and municipal staff in southern New Mexico and West Texas communities have received septic tank maintenance training to better understand the health threats associated with not properly maintaining their septic tanks.



Household hazardous collection event in Nuevo Laredo, tamaulipas, Mexico.

Promoting a Cleaner Region

When waste materials are improperly disposed of they can negatively impact our lands, transboundary watersheds, oceans and create habitat for vector borne illnesses. As the population has grown in border communities, increased amounts of plastics, electronics, tires and other materials has overburdened the waste management infrastructure and services.

The Border Programs have improved collaboration between binational stakeholders to reduce waste through: 1) mitigating the impacts of plastic, tires, and other waste through cleanups and educational outreach and community actions; 2) reducing waste and increasing recovery and reuse of plastic, e-waste, tires, and other materials; and 3) building technical capacity among diverse stakeholders to adopt sustainable materials management practices.

Since 2005, communities in the U.S.-Mexico border region have carried out projects to properly dispose: over 8 million scrap tires, nearly 60,000 tons of household hazardous waste, and # tons of electronic waste.

Promoting Environmental Stewardship

Improperly managing hazardous materials can contaminate transboundary environments and cause environmental health issues. Challenges such illegal or improper crossing of hazardous wastes and material at the U.S.-Mexico port-of-entries and the lack of community information on pollutant sources has called for improved enforcement efforts, compliance assurance and environmental stewardship.

Through Border Program efforts, environmental inspectors are now present at ports-of-entry and

information is exchanged between program partners on transboundary compliance at binational workshops.

Border communities are also benefitting from improved transparency of U.S. and Mexican pollutant discharge data i.e. the U.S. Toxic Release Inventory (TRI) and the Mexican Registry of Emissions and Transfer of Pollutions (RETC) reports. In addition, a binational public-private partnership also led to enhanced environmental stewardship, though ISO-14000 certification, for over 20 medium-sized companies in border communities.



Ojinaga, Chihuahua Responders received HAZMAT training and equipment (2012).

Strengthening Emergency Response Capability

Binational emergency preparedness and response coordination is critical in the border region, because toxic smoke, contaminated water and other impacts from disasters and incidents pay no heed to local, state or international boundaries. Emergency preparedness efforts — training, exercises, equipment — have been tested in real-life emergencies and led to a more efficient coordinated response along the U.S.-Mexico border. Joint Response Teams (JRT) support these efforts and ensures timely binational reporting of incidents.

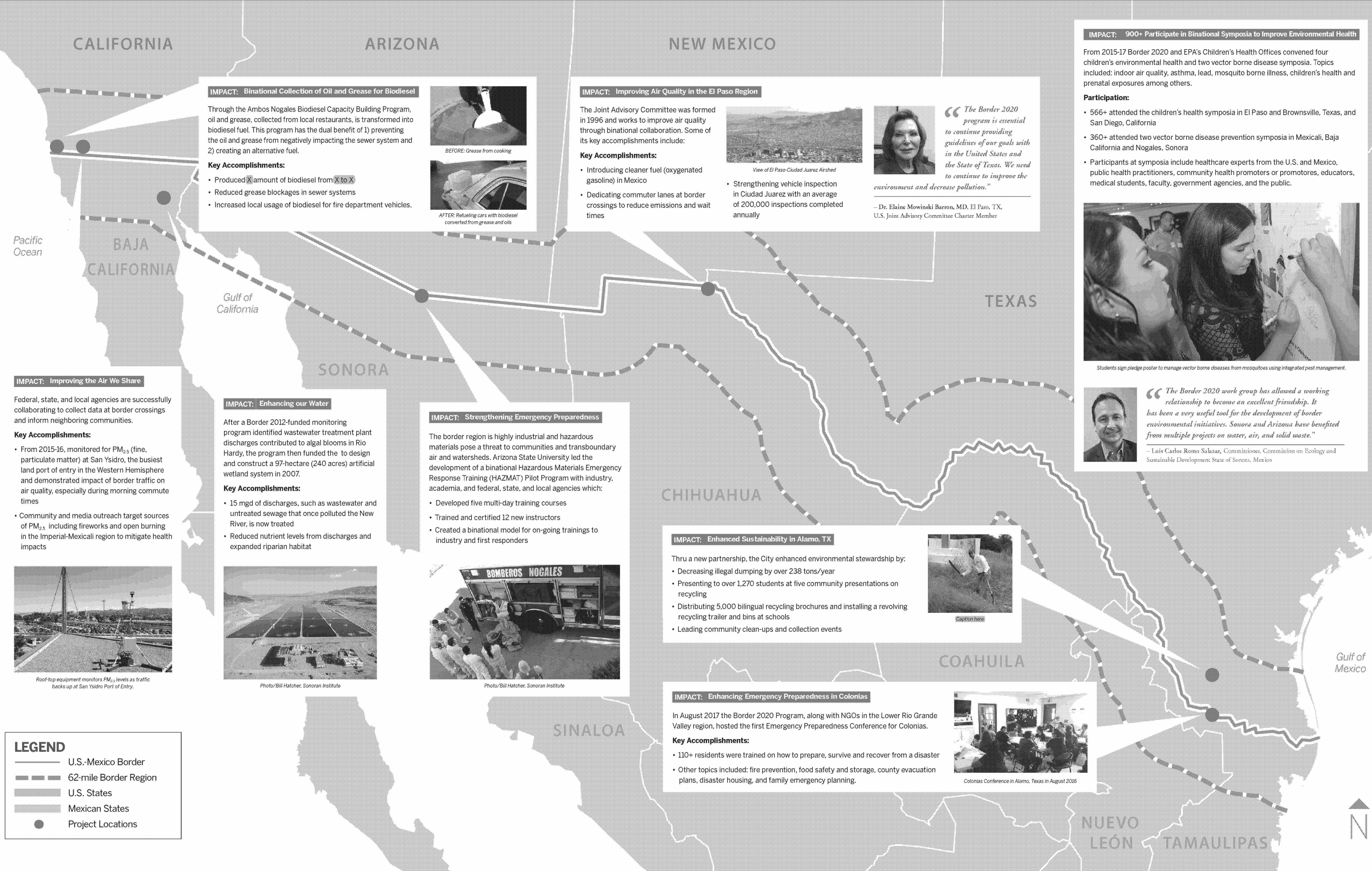
Through the Border Program, since 2013: more than 10,500 responders have received capacity trainings from over 140 training courses and over 25 binational exercises and 200 drill notifications between the U.S. and Mexico. These actions and resources have made the border region safer for residents, first responders and the environment.



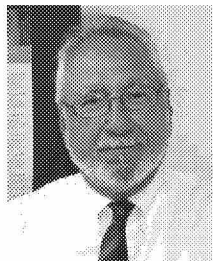
Inspector conducts truck stop inspection in Calexico, CA. Photo/Jessica Rodriguez

Partnering Binationally to Tangible Environmental Improvements

Tangible improvements along the entire 2000-mile border thru stakeholder- driven projects



Two countries, ten states, twenty-six tribes **one environment**



“The Border 2020 Program has allowed us to improve our relationship with EPA and more importantly they are accepting local input. That is important to develop long term relationships and really address U.S. – Mexico Border environmental issues.”

– Dr. Hector F. Gonzalez, Laredo, TX, Director of the City of Laredo Health Department



“These trainings save lives. Thanks to the Border 2020 program, both countries are working together not only to protect the communities but ourselves. It's a great satisfaction knowing that thanks to these courses we have saved lives.”

– Luis Chaboya, Retired Fireman, Nogales, AZ



U.S.-Mexico Border 2020 Program

www.epa.gov/border2020